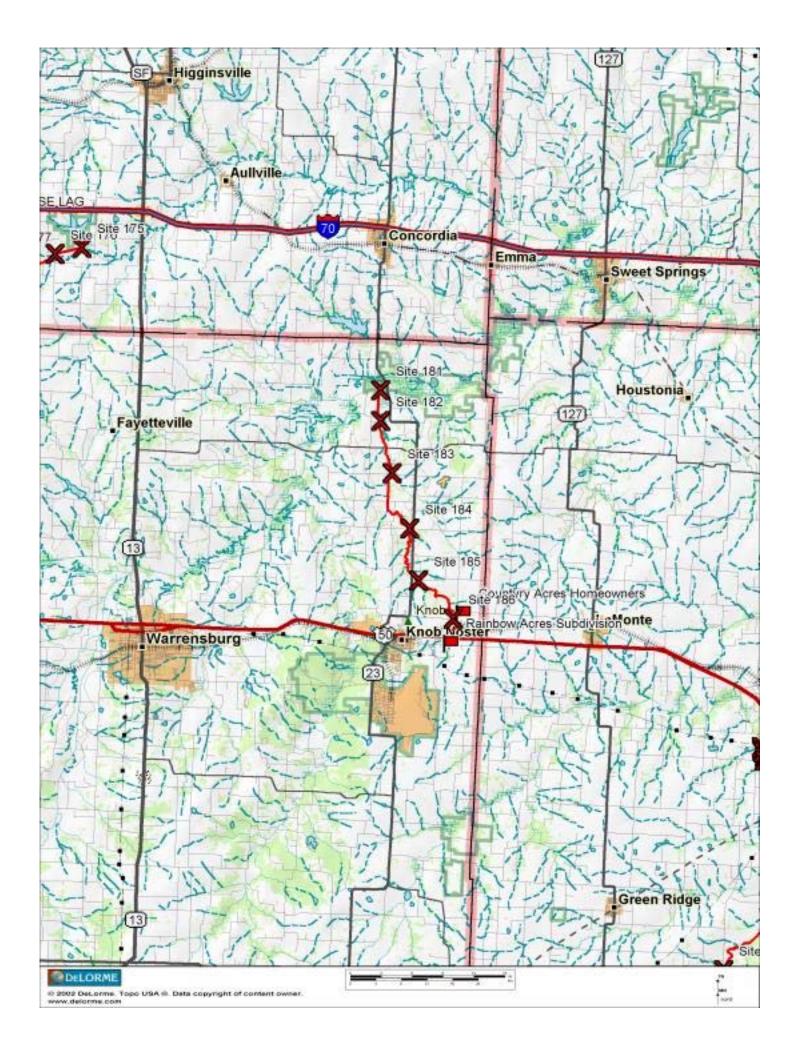
Use Attainability Analysis

for

WBID 0937 Walnut Creek

Submitted by Tetra Tech, Inc

To Missouri Department of Natural Resources Water Protection Program



RECEIVED

Data Sheet A - Water Body Identification

2005 MAY 23 PM 2: 59

	WATER PROTECTION PROGRAM
Water Body Name: (from USGS 7.5' quad) WALNUT CREEK (181-181)	далаон гиона
8-digit HUC: 10300 04	
	· · · · · · · · · · · · · · · · · · ·
Missouri WBID #: 0937	
County: JOHNSON COUNTY	
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd) N 38.77821 WD 93.52146	
Downstream Coordinates:	
(UGS 84, ddd.ddddd) N39, 90335 W093, 56620 New Mouth	
Discharger Facility Name(s): COUNTRY ACRES HUMEOWNERS / RAINDOW ACRES	51.8 OT 1/3 (TA).
Discharger Permit Number(s):	2001/1/4310/
Number of Sites Evaluated: 6	
Name of Surveyor and Telephone Number: CHAD BARBOUR, 410-356-8993	
Organization: TETMA TECH INC.	
Position: ASSOCIATE SCIENTIST	
•	
the undersigned, hereby affirm to the best of my knowledge, that all informat	ion reported on this UAA
tasheet is true and accurate.	
$O_{\bullet} + < O$	

_____Date: ____O4 |21/05

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Data Sheet B - Site Characterization

2005 HAY 23 PM 2: 59

(A separate data sheet must be completed for each site)

WATER PROTECTION PROGRAM

L	Missouri WBID #:	<u> </u>		Site Location D	•	
₽[Site GPS Coordinates: N	58,90335 WOG	3.54620	7 RH 23 Bm	dge in Ralph & Marth Conservation	ha Perry Memorial O Area
Į	Date & Time: 4-21-09	12:48 PM		Facility Name:	Country Acres Homeowners	Roinbau trees Sub
	Personnel: CB E	LY		Permit Number:		733 733 733 733 733 733 733 733 733 733
	Current Weather Conditi	ons: Cloudy 7	3°	Weather Condit	ions for Past 7 days:	
Į	Photo Ids: Upstream:	764 A 046 DOV	vnstream: (*	63 A 031 Othe	r:	··-
Use	es Observed*:	con		cun		- "
[Swimming	☐ Skin diving	□ se	CUBA diving	☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking	СВ	ating	□ Wading	☐ Rafting
	☐ Hunting	☐ Trapping	□ Fi	shing	None of the above	D 04
		er of individuals rec	reating, freq	iency of use, photo	-documentation of evidence Site located with	
Sui	250m from 4	er of individuals rec	reating, freq	i Pull off.	documentation of evidence	of recreational uses, e
Sui	250m from 1	er of individuals rec	reating, freq	i Pull off.	-documentation of evidence Site located with	of recreational uses, e
Sur	250m from 1	er of individuals rec he 5 He Hu 15*: (Mark all that p	reating, freq	pull off,	Site located with	of recreational uses, e
Sui	250 m from 1 rrounding Condition as of interest.) □ City/county parks	er of individuals rec he 5 He The 18*: (Mark all that p	reating, freq	pull off,	Site located with	of recreational uses, e
Suritem	rrounding Conditions of interest.) City/county parks Boating accesses	er of individuals rec Le 5 He The S*: (Mark all that p Playgrounds D State parks Fence	promote or in MDC o	pull off,	Site located with	of recreational uses, e
Suritem	250m from 4 rrounding Condition as of interest.) City/county parks Boating accesses No trespass sign	er of individuals rec Le 5 He The S*: (Mark all that p Playgrounds D State parks Fence	promote or in MDC c	pull off,	Site located with	of recreational uses, each Cambu (v. tium

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

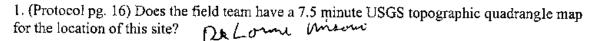
*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

The stream was greater than 3m deep we were unable to get an average depth.

☐ Riffle Width	(ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth	(ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth (Max. Depth		
N Pool Width	18,5,	ν Length (ft): 3	Om Avg. Depth	(it): to est, del	Max. Depth	(N) 3	m
Flow Preser	t? 🐧 Yes	□ No	3 m Estimated (H	17500) C85 3	7.35 =0.0		
Downstream Vi	ew Physical D)imensions:	432 Z	5s 35s			
□ Riffle Width		Length (ft):	Avg. Depth	(ft):	Max. Depth	(ft):	
Nun Width	10 24 m	Length (ff): 2	Om Avg. Depth	to est dept	Max. Depth	(M) >3,	
□ Pool Width		Length (ft):	Avg. Depth	(ft):	Max. Depth	(ft):	
N Flow Preser		□ No	Estimated (fi				
			flow ble we wer	re unable to	gct to the cen	tcr of y	tu streo
ubstrate*: (These							
		[arguell '	% Sand 5()	% Silt 50	() 9% Mind(('lav)	/n -	Z Badrool
None Visab	n*: (note amoun		% Sand 5() algal growth at the asse		% Mud/Clay		, Boulet
None Visab	n*: (note amoun	nt of vegetation or	algal growth at the asse	essment site)			N BOSTOCI
None Visab	n*: (note amoun e stics*: (Mark al	it of vegetation or It that apply.) Musky	algal growth at the asse	Sament site)	□ Other:		N BOILCE
None Visab Vater Characteri Odor: Color:	n*: (note amoun e stics*: (Mark al Sewage	Il that apply.) Musky	algal growth at the asse	None	☐ Other:		N BOILCE
Vater Characteri Odor: Color: Bottom Deposit:	n*: (note amoun e stics*: (Mark al Sewage Clear Sludge	Il that apply.) Musky Green Solids	☐ Chemical ☐ Gray ☐ Fine sediments	None Milky None	□ Other:		N BOILOCK
Vater Characteric Odor: Color: Bottom Deposit: Surface Deposit:	n*: (note amoun e stics*: (Mark al Sewage Clear Sludge Oil	Il that apply.) Musky Green Solids Scum	□ Chemical □ Gray □ Fine sediments	None None None None	☐ Other: ☐ Other: ☐ Other: ☐ Other:		- Dearce
Vater Characteriodor: Color: Bottom Deposit: Surface Deposit: Comments: Please This information is no comprehensive undersection on the recreate	stics*: (Mark al Sewage Clear Sludge Oil attach addition to be used solel anding of water con use analysis b	Il that apply.) I Musky Green Solids Scum Onal comments (ly for removal of a conditions. Consecut may point to continuous continuous continuous (I security conditions consecut may point to continuous (I security conditions consecut may point to continuous (I security conditions continuous (I security conditions continuous (I security continuous (I se	Chemical Gray Fine sediments Foam (including information quently, this information on ditions that need furth	None None None None nation but rather on is not intended ther analysis or the	Other: Other: Other: Other: other: stylews) to this if is to provide a modification influence at effect another to	form. ore ence a use.	
Vater Characteriodor: Color: Bottom Deposit: Surface Deposit: Comments: Please This information is no comprehensive undersection on the recreate	stics*: (Mark al Sewage Clear Sludge Oil attach addition to be used solel anding of water con use analysis b	Il that apply.) I Musky Green Solids Scum Onal comments (ly for removal of a conditions. Consecut may point to continuous continuous continuous (I security conditions consecut may point to continuous (I security conditions consecut may point to continuous (I security conditions continuous (I security conditions continuous (I security continuous (I se	Chemical Gray Fine sediments Foam (including information recreational use design quently, this information	None None None None nation but rather on is not intended ther analysis or the	Other: Other: Other: Other: other: stylews) to this if is to provide a modification influence at effect another to	form. ore ence a use.	
Vater Characteriodor: Color: Bottom Deposit: Surface Deposit: Comments: Please This information is no comprehensive undersection on the recreate, the undersigned	stics*: (Mark al Sewage Clear Sludge Oil attach addition to be used solel anding of water con use analysis b	Il that apply.) I Musky Green Solids Scum Onal comments (ly for removal of a conditions. Consecut may point to continuous continuous continuous (I security conditions consecut may point to continuous (I security conditions consecut may point to continuous (I security conditions continuous (I security conditions continuous (I security continuous (I se	Chemical Gray Fine sediments Foam (including informate a recreational use design quently, this information on ditions that need furth of my knowledge, to	None None None None nation but rather on is not intended ther analysis or the	Other: Other: Other: Other: Other: tviews) to this is to provide a mode it to directly influent at effect another with the control of the con	form. ore ence a use.	% Bedrock







- 2. (Protocol pg. 16) Does the field team measure and record location of the site using a GPS unit?
- 3. (Protocol pg. 16) Are the GPS location data recorded in UTM, NAD 83? Street white ward
- 4. (Protocol pg. 16) Are the start and end points (upstream and downstream coordinates) recorded on Data Sheet A?
- 5. (Protocol pg. 16) Are the narrative site assessments recorded on the forms provided in the protocol?
- 6. (Protocol pg. 16) Is information for this site recorded on a new form? We
- 7. (protocol pg. 16) Is a photographic record made of this site?
- 8. (Protocol pg. 16) Do the photographs include an upstream view and a downstream view?
- 9. (Protocol pg. 16) If the team discovers evidence of observed or potential use, is a photograph taken documenting the evidence? ν
- 10. (Protocol pg. 16) Are the photographs catalogued in the field notes in a manner that indicates site location?

date?

NP

view orientation?

what is being shown?

- 11. (Protocol pg. 16) If people are present, does the field team interview the people? N A
- 12. (Protocol pg 16) If an interview occurs, does the field team obtain and record in the field notes

history of the water body?

legal name of person interviewed?

address of person interviewed?

- 13. (Protocol) At the end of the site observation, is Data Sheet A (one sheet) completed and signed? We
- 14. (Protocol) At the end of the site observation, is Data Sheet B (two sheets) completed and signed?
- 15. (QAPP pg 13) Does the field team have a list of equipment and expendable supplies?

Page 3 of 3

- 16. (QAPP pg 13) Does the field team have backup equipment? wo-
- 17. (QAPP pg 13) Have any battery-powered equipment been fully charged? We-
- 18. (QAPP pg 14) If the field team notices any deviations from the planned survey, does the field team record the deviations on the field forms?
- 19. (QAPP pg 14) Are all entries made in ink with no erasures? U/3z
- 20. (QAPP pg 14) Are any incorrect entries crossed out with a single strike mark, initialed and dated? NA
- 21. (QAPP pg 14) Are all field data sheets filled out completely?
- 22. (QAPP pg 14-15) Are the completed field sheets signed?
- 23. (QAPP pg 15) Is this a replicate visit (for precision of field measurements)? NO
- 24. (QAPP pg 15) If evidence of recreation use is obvious, do the Field Team Leader and the Field QC Officer agree? PA
- 25. (QAPP pg 18) Does the field team have documentation or other evidence that the measurement equipment is in working order?
- 26. (QAPP pg 19) Does the field team have documentation or other evidence that the GPS unit has been checked for accuracy? Mr-

Signatures

We, the undersigned, hereby affirm, to the best of our knowledge, that this audit occurred and that the marking on this checklist accurately represent the audit results.

Auditor: Don P Will 21 apr 05
Field Team member 1: Old The 04/21/05

Field Team member 2: Cluyabeth La Ynhough 4-21-05

Field Team member 3:

Field Team member 4:

Date: 21 am 05

Site identifier: P P

Water of P

Blackwate Ruin

Page 1 of 3

Field Audit Checklist

Field work for Use Attainability Analysis for Contact Recreational Beneficial Use in Missouri

Overview

This checklist documents observations by an auditor (not from the State of Missouri) for field work performed according to "Recreational Use Attainability Analysis Protocol", Missouri Department of Natural Resources, Water Protection Program, November 3, 2004, and, "Field Data for Use Attainability Analysis (UAA)s for Contact Recreation Beneficial Use in Missouri", Tetra Tech, March 8, 2005. The purpose of the audit is to document the extent to which the field team follow the procedures in the protocol and the QAPP. The auditor does not perform simultaneous activities specified in the protocol and the QAPP for the purpose of comparing results obtained by the auditor and the field team. The field work is conducted here under Contract No. EP-C-04-030, Work Assignment No. B-15.

Procedure

The auditor arranges with the field workers to meet and accompany the field team for one or more site visits. When the auditor first meets the field team on the day of the field audit, the auditor provides the field team with a copy of this checklist. The auditor accompanies the field team to one or more site visits scheduled for the day. At each site, the auditor observes the work of the field team, and marks this checklist as events are observed. A new checklist is completed for each different site visited and audited. At the end of each site visit, both the field team and the auditor sign and date this checklist, attesting that this audit was performed as represented by this checklist and the markings thereon. After the day's work is complete, the auditor provides xerox copies of the completed checklists to a designated representative of the field team, and sends the original completed checklists to the State of Missouri.

Checklist

Date:

21 anos

Time of arrival at site: 12°48 pm

Identifier of site: 181

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Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

2005 HAY 23 PH 2: 59

				r r r r	SO EGUITERIOU DAGA.
Missouri WBID #: 15	ک		Site Location D	escription:	ER PROTECTION PROG
Site GPS Coordinates: A	130,886 AO W	093 5214.2	Un named 9	load off R+23 over	vpa=5
Date & Time: 4 - 21-	2005 1213 PM		Facility Name:	iountry Acros Homeowners / Ro	Lindones Areas Sala Maria
Personnel: CB FL		•	Permit Number		
Current Weather Conditi		W 75°	Weather Condi	ions for Past 7 days:	<u> </u>
Photo Ids: Upstream:		nstream: 1-76			
	000	<u> </u>	cit	<u> </u>	
ses Observed*:	· · · · · · · · · · · · · · · · · · ·				
☐ Swimming	☐ Skin diving	□ sct	/BA¶iving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Воа	ting	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	□ Fish	ina .e	None of the above	T'
Describe: (include numb Extra Data:	er of individuals recr	eating, freque	ncy of use, photo	-dicumentation of evidence With a max tream,	
Describe: (include numb Extra Data: There is a po Steve Long 205 w Broadway Higgensulle Mo	of an the di	eating, freque own stre o activity	in this s	or with a max	of recreational uses, etc. depth of 0,46,6
Describe: (include numb Extra Data: There is a po Steve Long 205 w Broadway Higgensulle Mo urrounding Condition ems of interest.)	of individuals recrewled on the distribution of the distribution of the control o	eating, freque own stre o activity romote or imp	in this s	-decumentation of evidence	of recreational uses, etc depth of 0,46,2 er 44065
Describe: (include numb Extra Data: There is a po Steve Long 205 W Broadway Higgensulle Mo	of an the di	eating, freque own stre o activity romote or imp	in this s	or with a max	of recreational uses, etc depth of 0,46,2 er 44065
Describe: (include numb Extra Data: There is a po Steve Long 205 w Broadway Higgensulle Mo urrounding Condition ems of interest.)	of individuals recrewled on the distribution of the distribution of the control o	eating, freque own stre o activity romote or imp	in this so	Tream.	of recreational uses, etc. depth of 0,4005 4005
Describe: (include numb Extra Data: There is a po Steve Long 205 w Broadway Higgensville Mo urrounding Condition ems of interest.)	There 15 no	eating, freque own stre o activity romote or imp	in this some pede recreational asservation lands	Tream.	of recreational uses, etc depth of 0,46,2 er 44,65 nce or unusual
Describe: (include number there is a post of interest.) Describe: (include number the post of interest.) Describe: (include number the post of interest.)	There 15 no	cating, freque Court Stre Court Stre Court Stre Court MDC con Distributed to the strength of the strength	in this some pede recreational asservation lands	Tream. Urban areas	of recreational uses, etc depth of 0,46,6 er 44,65 nce or unusual
Describe: (include number there is a possible Long 205 w Broadway Higgensulle Mourrounding Conditioners of interest.) City/county parks Boating accesses No trespass sign	There 15 no	eating, freque	in this some pede recreational asservation lands	Tream. Urban areas	of recreational uses, etc depth of 0,46,2 er 44,65 nce or unusual
Describe: (include number the control of the contro	There 15 no	cating, freque Court Style Court Style Court MDC con National i	in this some pede recreational servation lands	With a max tream. Urban areas Nature trails	of recreational uses, etc depth of 0,46,2 er 44,65 nce or unusual Campgrounds

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 182 ::

Stream Mor Upstream			nensions: in m	eters: 0.18,0.4	4.0.61.	0.30.0.12
□ Riffle	Width (Length (ft):	Avg. Depth	4 ,	Max. Depth (ft):
☐ Run	Width (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
™ Pool	Width \	6: 4.6m	Length (N): 2	Avg. Depth	(A) 0.33 m	Max. Depth (R): 0.61 m
□ Flow	Present?		□ No	3 n Estimated (f		[=0.08m/s]
D		***	.	405,4	Is 39s	
1		·	Dimensions:			0,40,0,38,0,18
Riffle	Width (1	<u>·</u>	Length (ft):	Avg. Depth	· · · · · · · · · · · · · · · · · · ·	Max. Depth (ft):
□ Run	Width (1	y	Length (ft):	Avg. Depth	<u> </u>	Max. Depth (ft): 0.40^{87}
□ Pool	Width	S-, 27, 17.	Length (N): 3		S C I C K I	m Max. Depth (t): 0.40 m
☑ Flow	Present	Yes Yes	□ No	S _M Estimated (f	2111	6.335m = 0.08 = 0.48 mg
Substrate*•	(These v	aluec chould a	dd up to 100%.)	(es, (os,	75	cus cub
	% Cobble		Gravel ()	% Sand 40	% Silt 4	% Mud/Clay / % Bedroc
Aquatic Veg	getation	*: (note amou	nt of vegetation or	algal growth at the asse	essment site)	
Algae		· .		 		
Water Char	acterist	ics*: (Mark	all that apply.)			
Odor:		☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other:
Color:		□ Clear	☐ Green	☐ Gray	⊠ Milky	☐ Other:
Bottom De	eposit:	☐ Sludge	☐ Solids	☐ Fine sediments	□ None	Other:
Surface De	eposit:	E LOil	□ Scum	☐ Foam	□ None	Other:
*This informati comprehensive decision on the	ion is not understar recreation	to be used solo ding of water nuse analysis	ely for removal of conditions. Conso but may point to c	a recreational use design equently, this informatio onditions that need furth	nation but rather on is not intended ser analysis or th	I to directly influence a at effect another use.
I, the unders datasheet is	signed,∫ true an √	hereby affi d accurate.	rm to the best	of my knowledge, t	hat all inforn	nation reported on this UAA
Signed:	WG	/h_			04-21-05	· · · · · · · · · · · · · · · · · · ·
Organization	: <u> </u>	TA TOCH	J√c.	Position	n; <u>A.ø&.⊋A7</u>	TO SCHENTIST
_			Edy	4-21-2	W05	
Septer	nber 29, 2	004	•	,		Page 19

Page 19





Date: 21 am 05
Site identifier: 182

Page 1 of 3

WALNUT CR

Field Audit Checklist

Field work for Use Attainability Analysis for Contact Recreational Beneficial Use in Missouri

Overview

This checklist documents observations by an auditor (not from the State of Missouri) for field work performed according to "Recreational Use Attainability Analysis Protocol", Missouri Department of Natural Resources, Water Protection Program, November 3, 2004, and, "Field Data for Use Attainability Analysis (UAA)s for Contact Recreation Beneficial Use in Missouri", Tetra Tech, March 8, 2005. The purpose of the audit is to document the extent to which the field team follow the procedures in the protocol and the QAPP. The auditor does not perform simultaneous activities specified in the protocol and the QAPP for the purpose of comparing results obtained by the auditor and the field team. The field work is conducted here under Contract No. EP-C-04-030, Work Assignment No. B-15.

Procedure

The auditor arranges with the field workers to meet and accompany the field team for one or more site visits. When the auditor first meets the field team on the day of the field audit, the auditor provides the field team with a copy of this checklist. The auditor accompanies the field team to one or more site visits scheduled for the day. At each site, the auditor observes the work of the field team, and marks this checklist as events are observed. A new checklist is completed for each different site visited and audited. At the end of each site visit, both the field team and the auditor sign and date this checklist, attesting that this audit was performed as represented by this checklist and the markings thereon. After the day's work is complete, the auditor provides xerox copies of the completed checklists to a designated representative of the field team, and sends the original completed checklists to the State of Missouri.

Checklist

Date: 2/ apr 05

Time of arrival at site: (2;#3 Pm

Identifier of site: 182

Page 2 of 3

- 1. (Protocol pg. 16) Does the field team have a 7.5 minute USGS topographic quadrangle map for the location of this site? The Larre William of the location of this site?
- 2. (Protocol pg. 16) Does the field team measure and record location of the site using a GPS unit? W
- 3. (Protocol pg. 16) Are the GPS location data recorded in UTM, NAD 83? degree, mine, record
- 4. (Protocol pg. 16) Are the start and end points(upstream and downstream coordinates) recorded on Data Sheet A?
- 5. (Protocol pg. 16) Are the narrative site assessments recorded on the forms provided in the protocol?
- 6. (Protocol pg. 16) Is information for this site recorded on a new form? by
- 7. (protocol pg. 16) Is a photographic record made of this site? Yet
- 8. (Protocol pg. 16) Do the photographs include an upstream view and a downstream view?
- 9. (Protocol pg. 16) If the team discovers evidence of observed or potential use, is a photograph taken documenting the evidence? NA
- 10. (Protocol pg. 16) Are the photographs catalogued in the field notes in a manner that indicates site location? What is being shown?
- 11. (Protocol pg. 16) If people are present, does the field team interview the people?
- 12. (Protocol pg 16) If an interview occurs, does the field team obtain and record in the field notes

history of the water body?
legal name of person interviewed?
address of person interviewed?

- 13. (Protocol) At the end of the site observation, is Data Sheet A (one sheet) completed and signed? \mathcal{O}^{9-}
- 14. (Protocol) At the end of the site observation, is Data Sheet B (two sheets) completed and signed? $\psi \sim$
- 15. (QAPP pg 13) Does the field team have a list of equipment and expendable supplies?

21 on os Site identifier:

Page 3 of 3

- 16. (QAPP pg 13) Does the field team have backup equipment? W
- 17. (QAPP pg 13) Have any battery-powered equipment been fully charged? When
- 18. (QAPP pg 14) If the field team notices any deviations from the planned survey, does the field team record the deviations on the field forms? N
- 19. (QAPP pg 14) Are all entries made in ink with no erasures? 44
- 20. (QAPP pg 14) Are any incorrect entries crossed out with a single strike mark, initialed and dated? Yr.
- 21. (QAPP pg 14) Are all field data sheets filled out completely?
- 22. (QAPP pg 14-15) Are the completed field sheets signed?
- 23. (QAPP pg 15) Is this a replicate visit (for precision of field measurements)?
- 24. (QAPP pg 15) If evidence of recreation use is obvious, do the Field Team Leader and the Field QC Officer agree? NA
- 25. (QAPP pg 18) Does the field team have documentation or other evidence that the measurement equipment is in working order?
- 26. (QAPP pg 19) Does the field team have documentation or other evidence that the GPS unit has been checked for accuracy? (M)-

Signatures

We, the undersigned, hereby affirm, to the best of our knowledge, that this audit occurred and that the marking on this checklist accurately represent the audit results.

Auditor: Dun P with 21 agn 05
Field Team member 1: Off Run 04/21/05
Field Team member 2: Elypleth Lee Yarbough

Field Team member 3:

Field Team member 4:

Page Two - Data Sheet B for WBID # 183 :

tream Morph <u>Upstr</u> eam V		ical Dim	ensions: M	moters!	0.6a. <i>6.</i> 0	18,0.16, C	2.16. 0.18	
□ Riffle W	idth (ft):		Length (ft):	<u> c. 101.01</u>	Avg. Depth (Max. Depth (ft):	 -
`Q Run W	/idth (ří): -	7.lem	Length (ft):	80 m	Avg. Depth	₩ 0.12 m	Max. Depth (ft):	······································
□ Pool W	idth (ft):		Length (ft):		Avg. Depth (Max. Depth (ft):	
N Flow P	resent?	\ Yes	□ No		Estimated (ft	³/sec): (55 /	3m= 0.20 m/6	
Downstream	· View Pt	vsical D	imensions		Estimated (ft	s, 165.	0.26 0.08	٠
□ Riffle W	idth (ft):	ijildi D	Length (ft):	<u>in meter</u>	Avg. Depth (<u>Q, 26 U, Ω δ</u> Max. Depth (ft):	
	_B1	4,4m	Length (ft);	20m	Avg. Depth (ξÝ	Max. Depth (R):	
	/idth (ft):	11-11M	Length (ft):	SUM	Avg. Depth (17.110 M	Max. Depth (ft):	dem
		\(\sum_{Yes}\)	□ No			•	15/3m = 0.11m/	
	ieseitt:	165	1NO		29s .	275, 265	7 / 3m = 0.11 m/	5
bstrate*: (T	hese values	should add	l up to 100%.)					
<u> 30 %c</u>	obble () % (iravel 6	() % San	d 10	% Silt /()	% Mud/Clay ()	% Bedroo
ater Charact							 -	<u> </u>
Color:		ewage	☐ Musky		emical	None	Other:	
Bottom Depos	Z C		□ Green	□ Gr	-	☐ Milky	Other:	<u> -</u> .
		ludge	☐ Solids		e sediments	□ None	Other:	
Surface Depos	sit: O	il	□ Scum	□ Fo	m	None	Other:	
nis information in inprehensive unk ission on the recitive undersign tasheet is true	is not to be lerstanding reation use ned, here ie and ac	used solely of water co analysis bu by affirm curate.	for removal conditions. Cor at may point to	of a recreation sequently, the conditions t	nal use design his information hat need furthe	ation but rather it is not intended analysis or that	views) to this form. is to provide a more to directly influence a at effect another use. nation reported on	this UAA
gned:					Date:	04/21/05		_
rganization:	TETRA	TECH :	JNC.		Position	: AUKEA	18 Se =607257	_
			82	4	-21-6) <i>5</i>		
				()	, , .			

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Data Sheet B - Site Characterization

2005 MAY 23 PM 2: 59

(A separate data sheet must be completed for each site)

WATER PROTECTION PROGRAM

	33		Site Location D	•	
Site GPS Coordinates:	N.58,85779 WO	73.56342] NE 700th &	d Overpass	
Date & Time: 4-21-	2005 1135 AM		Facility Name: (Country Acres Homeowners/Ro	sindows Acres Solidisticie
Personnel: Cb. El.	.Υ		Permit Number:		TELEVINIA CONTRACTOR
Current Weather Condi	tions: Partly Claud	y 70°	Weather Condit	ions for Past 7 days:	
Photo Ids: Upstream:		vnstream: †%	Othe	r:	<u> </u>
	<i>୦</i> ୡ୩		CGS	<u></u>	·*···
Jses Observed*:				T**	
☐ Swimming	☐ Skin diving	□ SCI	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Box	ating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fish	ning	➤ None of the above	☐ Other:
Downstream poo there is a pipeli	l w/a max	death of	f 0.52m.	Just daunstream	of recreational uses, et of the X site
Downstream poo there is a pipeli	il w/a max re running un	depth of der the s	f 0.52m. Hream.	Just dawnstream of evidence	of the x site
Downstream poo there is a pipeli	il w/a max re running un	depth of der the s	f 0.52m. Hream.	Just daunstream o	nce or unusual
Downstream poor there is a pipeli	w/a max we funning uni ons*: (Mark all that p	depth of der the s	F 0.52 m. Hream. pede recreational unservation lands	Just downstream of sevide	nce or unusual
Downstream poor there is a pipeling condition to the condition of interest.)	ons*: (Mark all that p	depth of der the s	F 0.52 m. Hream. pede recreational unservation lands forests	Just downstream of second seco	nce or unusual
Downstream poor there is a proper interest.) City/county parks Boating accesses	ms*: (Mark all that p	promote or imp	F 0.52 m. Hream. pede recreational unservation lands forests	Just downstream of section of evide Urban areas Nature trails	nce or unusual
Downstream poor there is a proper interest.) City/county parks Boating accesses No trespass sign	ms*: (Mark all that p	depth of der the s	F 0.52 m. Hream. pede recreational unservation lands forests	Just downstream of section of evide Urban areas Nature trails	nce or unusual Campgrounds Stairs/walkway
Downstream poor there is a pipeling there is a pipeling condition tems of interest.) City/county parks Boating accesses No trespass sign	Daygrounds □ Playgrounds □ Fence	promote or important of the street of the st	Policy of the pede recreational unservation lands forests	Just downstream of second	nce or unusual □ Campgrounds

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.





Date: 21 apr 05

Site identifier: 185

Page 1 of 3

Field Audit Checklist

Field work for Use Attainability Analysis for Contact Recreational Beneficial Use in Missouri

Overview

This checklist documents observations by an auditor (not from the State of Missouri) for field work performed according to "Recreational Use Attainability Analysis Protocol", Missouri Department of Natural Resources, Water Protection Program, November 3, 2004, and, "Field Data for Use Attainability Analysis (UAA)s for Contact Recreation Beneficial Use in Missouri", Tetra Tech, March 8, 2005. The purpose of the audit is to document the extent to which the field team follow the procedures in the protocol and the QAPP. The auditor does not perform simultaneous activities specified in the protocol and the QAPP for the purpose of comparing results obtained by the auditor and the field team. The field work is conducted here under Contract No. EP-C-04-030, Work Assignment No. B-15.

Procedure

The auditor arranges with the field workers to meet and accompany the field team for one or more site visits. When the auditor first meets the field team on the day of the field audit, the auditor provides the field team with a copy of this checklist. The auditor accompanies the field team to one or more site visits scheduled for the day. At each site, the auditor observes the work of the field team, and marks this checklist as events are observed. A new checklist is completed for each different site visited and audited. At the end of each site visit, both the field team and the auditor sign and date this checklist, attesting that this audit was performed as represented by this checklist and the markings thereon. After the day's work is complete, the auditor provides xerox copies of the completed checklists to a designated representative of the field team, and sends the original completed checklists to the State of Missouri.

Checklist

Date:

21 anos

Time of arrival at site: 11/38

Identifier of site:

183

Page 2 of 3

- 1. (Protocol pg. 16) Does the field team have a 7.5 minute USGS topographic quadrangle map for the location of this site?
- 2. (Protocol pg. 16) Does the field team measure and record location of the site using a GPS unit?
- 3. (Protocol pg. 16) Are the GPS location data recorded in UTM, NAD 83? degree much
- 4. (Protocol pg. 16) Are the start and end points(upstream and downstream coordinates) recorded on Data Sheet A?
- 5. (Protocol pg. 16) Are the narrative site assessments recorded on the forms provided in the protocol?
- 6. (Protocol pg. 16) Is information for this site recorded on a new form? U/2
- 7. (protocol pg. 16) Is a photographic record made of this site? When
- 8. (Protocol pg. 16) Do the photographs include an upstream view and a downstream view? (1)22
- 9. (Protocol pg. 16) If the team discovers evidence of observed or potential use, is a photograph taken documenting the evidence? NA
- 10. (Protocol pg. 16) Are the photographs catalogued in the field notes in a manner that indicates site location? W= date? view orientation? W= what is being shown? W=
- 11. (Protocol pg. 16) If people are present, does the field team interview the people? NA
- 12. (Protocol pg 16) If an interview occurs, does the field team obtain and record in the field notes

history of the water body?

legal name of person interviewed?

address of person interviewed?

- 13. (Protocol) At the end of the site observation, is Data Sheet A (one sheet) completed and signed?
- 14. (Protocol) At the end of the site observation, is Data Sheet B (two sheets) completed and signed?
- 15. (QAPP pg 13) Does the field team have a list of equipment and expendable supplies?

- 16. (QAPP pg 13) Does the field team have backup equipment? Wr-
- 17. (QAPP pg 13) Have any battery-powered equipment been fully charged?
- 18. (QAPP pg 14) If the field team notices any deviations from the planned survey, does the field team record the deviations on the field forms? NA
- 19. (QAPP pg 14) Are all entries made in ink with no erasures?
- 20. (QAPP pg 14) Are any incorrect entries crossed out with a single strike mark, initialed and dated? Wh-
- 21. (QAPP pg 14) Are all field data sheets filled out completely? Wez-
- 22. (QAPP pg 14-15) Are the completed field sheets signed? W
- 23. (QAPP pg 15) Is this a replicate visit (for precision of field measurements)?
- 24. (QAPP pg 15) If evidence of recreation use is obvious, do the Field Team Leader and the Field QC Officer agree? NA
- 25. (QAPP pg 18) Does the field team have documentation or other evidence that the measurement equipment is in working order? We
- 26. (QAPP pg 19) Does the field team have documentation or other evidence that the GPS unit has been checked for accuracy?

Signatures

We, the undersigned, hereby affirm, to the best of our knowledge, that this audit occurred and that the marking on this checklist accurately represent the audit results.

Run Philly 21 agr 05

Auditor:

Field Team member 1: Old 6 hr 34/21/05
Field Team member 2: Object Le Yorknowsh

Field Team member 3:

Field Team member 4:

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Data Sheet B - Site Characterization

2005 MAY 23 PH 2: 59

(A separate data sheet must be completed for each site)WATER PROTECTION PROGRAM

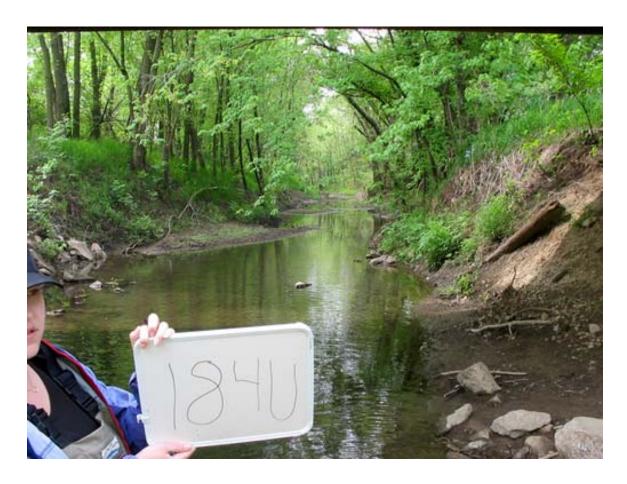
**					
Missouri WBID #: 15	4		Site Location De	escription;	·
Site GPS Coordinates:	138.82747 WO	93.55128	₩ 500+n Rd	overpass	
Date & Time: 4-21	2005 10:50		Facility Name: (ounty Acres Homeowners/Ro	intow Acres Subdivision
	LY		Permit Number:		
Current Weather Conditi	ions: Mostly Clark	68°	Weather Conditi	ons for Past 7 days:	· <u></u>
Photo Ids: Upstream:	157A c33 Dov	nstream:	758-A 034 Othe		
-	080	1.	(2)	····	
Jses Observed*:	<u></u>			· · · · · · · · · · · · · · · · · · ·	
☐ Swimming	☐ Skin diving	c	CUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□в	oating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	□F	shing	None of the above	☐ Other:
On upstream on downstream	portion the	reating, freq 'E (5 0 ve 13 a	uency of use, photo- Pool w/a	documentation of evidence Max depth of may depth of	of recreational uses, en of 0.90m. f 0.56m.
On Upstream of On downstream	portion the	re is a	1,0001 W/a	max depth o	of 0.90m. f 0.56m.
On Upstream of On downstream of On downstream	portion the	re is a	1,0001 W/a	max depth o	of 0.90m. f 0.56m.
On upstream of the condition of interest.)	portion then portion the	re is a	pool w/a	max depth of may depth of ses. Attach photos of eviden	of 0.90m. f 0.56m. nce or unusual
On Upstream of Un downstream Surrounding Condition tems of interest.)	portion the portion the	re is a	pool w/a	max depth or may depth or ses. Attach photos of eviden	of 0.90m. f 0.56m.
On Upstream of On downstream of On downstream of One downstream of One o	portion then portion then solving the portion then Bright all that proposed the parks Brence	re is a promote or i	pool w/a	max depth or may depth or ses. Attach photos of evider Urban areas	of 0.90m. f 0.56m. nce or unusual
On Upstream On downstream ourrounding Condition ems of interest.) City/county parks Boating accesses No trespass sign	portion then portion then solving the portion then Bright all that proposed the parks Brence	oromote or i	pool w/a	max depth or may depth or ses. Attach photos of evider Urban areas	of 0.90m. f 0.56m. nce or unusual Campgrounds Stairs/walkway
On Upstream of On downstream of On downstream of One of Interest.) City/county parks Boating accesses No trespass sign	portion then portion then portion then "Blaygrounds Playgrounds State parks Fence	oromote or i	pool w/a pool w/a mpede recreational w conservation lands al forests	may depth or may depth or ses. Attach photos of evider Urban areas	of 0.90 m. f 0.56 m. nce or unusual

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Width (f	t):	Length (ft);	Meters : 0.12, Avg. Depth		Max. Depth (ft):
Width (\$ 1.5m	Length (iv):		EY	Max. Depth (N) 0.12
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Present?	∑ Yes	□ No	3 Estimated (1	13/sce): 3m/	475 = 80 = 0.12 m
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			- 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.38. 0.48. 0.48. 0
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Present?	\(\sqrt{Yes}\)	□ No		7,1700	3m/47s= 0.06.
(Th	.1	1000	36 - 14s	145-085 64	08; - 575
			% Sand D.G.	% Sit OF	% Mud/Clay / % B
			☐ Chemical	None	☐ Other:
		☐ Green	[] Gray	-	Nother: brown
osit:	☐ Sludge	☐ Solids	☐ Fine sediments	□ None	☐ Other:
posit:	□ Oil	☐ Scum	□ Foam	N None	Other:
	o be used solel	ly for removal of a	recreational use design	nation but rather is to on is not intended to	o provide a more
inderstanderected recreation igned, l irue and	ding of water of tuse analysis b nereby affir d accurate.	nut may point to co m to the best (onditions that need furth	hat all informa	tion reported on this U
	Width (for Present?) Width (for Width (for Width (for Present?) (These variation) Cobble etation: cosit:	Width (ft): Present? Yes Am View Physical I Width (ft): Width (ft): Width (ft): Width (ft): Yes These values should ad Cobble 5 % etation*: (note amount acteristics*: (Mark all Sewage Clear cosit: Sludge cosit: Glidge	Width (R): Length (R): Width (R): Length (R): Present? Yes No Mam View Physical Dimensions: Width (R): Length (R): Width (R): Length (R): Width (R): Length (R): Present? Yes No These values should add up to 100%.) Cobble 5 % Gravel O Pation*: (note amount of vegetation or	Width (ft): Length (ft): Avg. Depth Width (ft): Length (ft): Avg. Depth Present? Yes No S. Estimated (ft) am View Physical Dimensions: Width (ft): Length (ft): Avg. Depth Present? Yes No S. Estimated (ft) These values should add up to 100%.) Cobble 5 % Gravel % Sand 35 etation*: (note amount of vegetation or algal growth at the asset acteristics*: (Mark all that apply.) Sewage Musky Chemical Clear Green Gray Sosit: Sludge Solids Fine sediments Sosit: Sludge Solids Fine sediments	Width (ft): Length (ft): Avg. Depth (ft): 6, 114 m Width (ft): Length (ft): Avg. Depth (ft): 5 m Present? Yes No S. Estimated (ft ² /sce): 5 m am View Physical Dimensions: 1 Me feets 0.30, Width (ft): Length (ft): Avg. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): 0.296 m Present? Yes No S. Estimated (ft ² /see): 5 m Present? Yes No S. Estimated (ft ² /see): 6.30, These values should add up to 100%.) Cobble 5 % Gravel % Sand 25 % Silt 25 Patation*: (note amount of vegetation or algal growth at the assessment site) **Ceteristics*: (Mark all that apply.) Sewage Musky Chemical None Clear Green Gray Milky **Sosit: Sludge Solids Fine sediments None

Page 19





Date: 21 opn 05 Site identifier: #184

Page 1 of 3

Field Audit Checklist

Field work for Use Attainability Analysis for Contact Recreational Beneficial Use in Missouri

Overview

This checklist documents observations by an auditor (not from the State of Missouri) for field work performed according to "Recreational Use Attainability Analysis Protocol", Missouri Department of Natural Resources, Water Protection Program, November 3, 2004, and, "Field Data for Use Attainability Analysis (UAA)s for Contact Recreation Beneficial Use in Missouri", Tetra Tech, March 8, 2005. The purpose of the audit is to document the extent to which the field team follow the procedures in the protocol and the QAPP. The auditor does not perform simultaneous activities specified in the protocol and the QAPP for the purpose of comparing results obtained by the auditor and the field team. The field work is conducted here under Contract No. EP-C-04-030, Work Assignment No. B-15.

Procedure

The auditor arranges with the field workers to meet and accompany the field team for one or more site visits. When the auditor first meets the field team on the day of the field audit, the auditor provides the field team with a copy of this checklist. The auditor accompanies the field team to one or more site visits scheduled for the day. At each site, the auditor observes the work of the field team, and marks this checklist as events are observed. A new checklist is completed for each different site visited and audited. At the end of each site visit, both the field team and the auditor sign and date this checklist, attesting that this audit was performed as represented by this checklist and the markings thereon. After the day's work is complete, the auditor provides xerox copies of the completed checklists to a designated representative of the field team, and sends the original completed checklists to the State of Missouri.

<u>Checklist</u>

21 am of

Time of arrival at site: 10; > J Am

Identifier of site: AIBY

- 1. (Protocol pg. 16) Does the field team have a 7.5 minute USGS topographic quadrangle map for the location of this site?
- 2. (Protocol pg. 16) Does the field team measure and record location of the site using a GPS unit?
- 3. (Protocol pg. 16) Are the GPS location data recorded in UTM, NAD 83? Jenses must. went
- 4. (Protocol pg. 16) Are the start and end points(upstream and downstream coordinates) recorded on Data Sheet A?
- 5. (Protocol pg. 16) Are the narrative site assessments recorded on the forms provided in the protocol?
- 6. (Protocol pg. 16) Is information for this site recorded on a new form?
- 7. (protocol pg. 16) Is a photographic record made of this site?
- 8. (Protocol pg. 16) Do the photographs include an upstream view and a downstream view?
- 9. (Protocol pg. 16) If the team discovers evidence of observed or potential use, is a photograph taken documenting the evidence? NA
- 10. (Protocol pg. 16) Are the photographs catalogued in the field notes in a manner that indicates site location? Wz date? with view orientation? Wz what is being shown? Wz
- 11. (Protocol pg. 16) If people are present, does the field team interview the people? NA
- 12. (Protocol pg 16) If an interview occurs, does the field team obtain and record in the field notes

history of the water body?

legal name of person interviewed?

address of person interviewed?

- 13. (Protocol) At the end of the site observation, is Data Sheet A (one sheet) completed and signed? Wz-
- 14. (Protocol) At the end of the site observation, is Data Sheet B (two sheets) completed and signed? UVz
- 15. (QAPP pg 13) Does the field team have a list of equipment and expendable supplies? Use

Page 3 of 3

- 16. (QAPP pg 13) Does the field team have backup equipment?
- 17. (QAPP pg 13) Have any battery-powered equipment been fully charged? W-
- 18. (QAPP pg 14) If the field team notices any deviations from the planned survey, does the field team record the deviations on the field forms?
- 19. (QAPP pg 14) Are all entries made in ink with no erasures?
- 20. (QAPP pg 14) Are any incorrect entries crossed out with a single strike mark, initialed and dated? ·Va
- 21. (QAPP pg 14) Are all field data sheets filled out completely?
- 22. (QAPP pg 14-15) Are the completed field sheets signed? 4/2_
- 23. (QAPP pg 15) Is this a replicate visit (for precision of field measurements)?
- 24. (QAPP pg 15) If evidence of recreation use is obvious, do the Field Team Leader and the Field QC Officer agree? NA
- 25. (QAPP pg 18) Does the field team have documentation or other evidence that the measurement equipment is in working order?
- 26. (QAPP pg 19) Does the field team have documentation or other evidence that the GPS unit has been checked for accuracy?

Signatures |

We, the undersigned, hereby affirm, to the best of our knowledge, that this audit occurred and that the marking on this checklist accurately represent the audit results.

Auditor: Don P Mills 21 am 05
Field Team member 1: Clubble 34/21/05

Field Team member 2: Chyaleth Lee Yarbrough

Field Team member 3:

Field Team member 4:

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2005 MAY 23 PM 2: 59

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

WATER PROTECTION PROGRAM

Missouri WBID#: 18	15		Site Location De	•	
Site GPS Coordinates:		93 54581	TENSI O	verpass	
Date & Time: 4-20-3		10.0100		Country Acres Homeowners,	Rambour Acres Subdivis
Personnel: CB, E	LY		Permit Number:	,	711-12-2
Current Weather Condi	tions: Party Clau	dv 15°	Weather Condit	ions for Past 7 days:	· •
Photo Ids: Upstream:		nstream: 17	52 A OZ8 Othe	r:	
	C _D		CCB		
Jses Observed*:					
	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□Во	ating	□ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fis	hing	None of the above	Other:
Interviewed a any recreational	ber of individuals rec Family who de Uses on the	reating, frequ clined to (5 Str eavr	ency of use, photo- give informa	documentation of evidence from . They never	of recreational uses, et-
Interviewed a any recreational	family who de uses on the	clined to (5 Stream	give informa	documentation of evidence from They never	of recreational uses, etcohoseved
Interviewed a any recreational	family who de uses on the	clined to (5 Stream promote or in	give informa	tion. They never	of recreational uses, etcohoseved
Interviewed a any recreational surrounding Conditions of interest.)	Family who de uses on the uses (Mark all that	clined to (5 Stream promote or in	give informational unservation lands	tion. They never	of recreational uses, etc observed nee or unusual
Interviewed a any recreational surrounding Conditional tems of interest.)	Family who de uses on the	clined to (5 Stream promote or in	give information. speede recreational transcription lands	ises. Attach photos of eviden	of recreational uses, etc Ob Sexved nce or unusual
Insterviewed a any recreational surrounding Conditional tems of interest.) City/county parks Boating accesses	Family who de USES on the USES on the Playgrounds Playgrounds State parks Fence	promote or im	give information. speede recreational transcription lands	ises. Attach photos of eviden Urban areas Nature trails	of recreational uses, etc Ob Sexved nce or unusual
Interviewed a any recreational conditional conditional conditions of interest.) City/county parks Boating accesses No trespass sign	Family who de USES on the USES on the Playgrounds Playgrounds State parks Fence	promote or im MDC co	give information. speede recreational transcription lands	ises. Attach photos of eviden Urban areas Nature trails	of recreational uses, etc ob Sexved nce or unusual Campgrounds Stairs/walkway
Interviewed a any recreational conditional	Family who de USes on the USes	promote or im MDC co National	ppede recreational unservation lands	Ises. Attach photos of evider Urban areas Nature trails	of recreational uses, etc Ob Sexved nce or unusual

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 185 :

	ream Mor Upstream			mensions: _{In Th}	EY 4-20-05 : 0-20 : 0.08	1. 0.02 . <i>0</i>		12
	☐ Riffle	Width (Length (ft):	Avg. De		Max. Depth (ft):
	\ Run	Width (10 4.0m	Length (Ku): 3	Om Avg. De	oth (16): 0.10	Max. Depth	N: 0.18m
	□ Pool	Width (Length (ft):	Avg. Dej		Max. Depth (
	D Flow	Present	Yes	□ No	3 _M Estimate			1 m/5
	Downstre	am Vie	w Physical	Dimensions: 18	53 - 33 2001 002	\$1055 - 13	14-43 14-0.05 0.0	ລ
	⊠ Riffle	Width (.EY	Avg. De	oth (0 039		
	□ Run	Width (Length (ft):	Avg. Der		Max. Depth (EM M - 20 - 0.5
	☐ Pool	Width (ft):	Length (ft):	Avg. Deg	oth (ft):	Max. Depth (ft):
	i's Flow	Present	Yes	□ No	3 M Estimate		/ 5.66s =	0.54 m/s
c	hatmata#s	/TEN			04-00	W 80-5	16m 32-38	m
Sμ		Cobbie	-	add up to 100%.) 6 Gravel 5	% Sand	% Silt	5 % Mud/Clay	
W		acterist	ics*: (Mark	all that apply.)				
	Odor:		□ Sewage	☐ Musky	☐ Chemical	M None	☐ Other:	
	Color:	· · ·	EKClear	☐ Green	☐ Gray	☐ Milky	Other:	
	Bottom De	posit:	□ Sludge	☐ Solids	☑ Fine sedimen	ts 🗆 None	☐ Other:	
	Surface De	posit:	□ Oil	☐ Scum	☐ Foam	None	☐ Other:	
*Theonometer decoration in the second	nis information prehensive ision on the he understasheet is gned:	on is not understar recreation signed, true an	to be used so adding of water use analysis hereby aff daccurate	iely for removal of a reconditions. Consect but may point to colirent to the best of the b	recreational use desquently, this informations that need for free free free free free free free	signation but rathation is not intender ther analysis or e, that all info	ATE SCHONTZ.	e ce a e. I on this UAA
				$\mathcal{L}\mathcal{L}$	44-0	W-AWJ	ı	





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2005 MAY 23 PM 2: 59

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

WATER PROTECTION PROGRAM

	66		Site Location D	escription:	
Site GPS Coordinates:		3. 5a+46	NE 175+ 1	Overpass	
Date & Time: 4-20-	2005 5:18 PM		Facility Name: (Country Acres Homeowne	rs/Rainbow Acres Sub
Personnel: CB, E	LY		Permit Number:		
Current Weather Condit	ions: Overcas	†	Weather Condit	ions for Past 7 days:	
Photo Ids: Upstream:	749A 025 Dov	vnstream: 🌱	Soul Othe	<u></u>	
- 01	Cū¢	···.	Who		
ses Observed*:			<u> </u>	<u> </u>	
Swimming	Skin diving		UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Bo	ating	□ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fisi		None of the above -documentation of evidence	☐ Other:
rrounding Conditio	ns*: (Mark all that p	promote or im	pede recreational t	uses. Attach photos of evide	nce or unusual
rrounding Conditions of interest.)	ns*: (Mark all that p	I	pede recreational to	uses. Attach photos of eviden	nce or unusual
of interest.)		I	nservation lands		···-
City/county parks	☐ Playgrounds	☐ MDC co	nservation lands	Cl Urban areas	☐ Campgrounds
City/county parks Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co	nservation lands	Cl Urban areas Cl Nature trails	☐ Campgrounds
☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co ☐ National ☐ Steep slo	nservation lands	Cl Urban areas Cl Nature trails	☐ Campgrounds ☐ Stairs/walkway
□ City/county parks □ Boating accesses □ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC co ☐ National ☐ Steep sion	forests	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Page Two - Data Sheet B for WBID # 186:

□ Riffle	Width (ft)	:	Length (ft):	Avg. Depth	(ft):	Max. Depth (1	ft):
□ Run	Width (ft)	;	Length (ft):	Avg. Depth	(ft):	Max. Depth (1	<u> </u>
□ Pool	Width (fi	3.9 m	Length (h):	20m Avg. Depth	1 D 134		· ·
\(\overline{\ov	Present?	☐ Yes	No No	Estimated (<u> </u>	IM.	& 0.16m
							·
				m: 0.20, 0.11		08,006	
	Width (ft)		Length (ft):	Avg. Depth	(ft):	Max. Depth (f	t):
	Width (K		Length (R):	Avg. Depth	0.108	m Max. Depth	& O.an
☐ Pool	Width (ft)	:	Length (ft):	Avg. Depth	(ft):	Max. Depth (f	i):
Now Y	Present?	_ ≝ Yes	□ No	3 m Estimated (· • · · · · · · · · · · · · · · · · · ·		0.11m/s
strate*• /	Thee val	nas skanld s	add up to 100%.)	03-3	50 37-0 286	11-34	
5 %	Cobbie		Gravel	% Sand	% Silt	% Mud/Clay	90 % Bedroo
Algae							
ter Chara	cteristic		all that apply)	····	<u>.</u>		j.
Higae ter Chara Odor:		s*: (Mark :	all that apply.)	☐ Chemical	None	□ Other:	š .
				☐ Chemical	None ☐ Milky	□ Other:	, s
Odor:	<u></u>] Sewage	☐ Musky			Other:	, , , , , , , , , , , , , , , , , , ,
Odor: Color:	osit:	l Sewage L Clear	☐ Musky	☐ Gray	□ Milky	· ·	, k



